



SAM GLOBAL UNIVERSITY

Established under Govt. of M.P. & Recognized by UGC

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Syllabus for entrance examination for admission in Ph.D PET – AGRICULTURE

AGRONOMY

Syllabus

Integrated farming, Organic farming, Resource conservation technologies, Crop residue management, Dry land farming, Physiology of grain yield in cereals, Precision agriculture, Remote sensing for yield forecasting. Commercial fertilizers, Organic manures, Fertilizer use efficiency, Nutrient interactions, integrated nutrient management. Weed biology, ecology, Crop weed competition, Classification of herbicides, their selectivity and mechanism/ mode of action. Weed management in major field crops. Herbicide resistance. Soil –water- plant relationship. Factors determining water needs, Scheduling and methods of irrigation. Quality of water. Drainage, Excess water and water stress, their effect on plant growth, Fertigation, Water use efficiency, Transpiration, Absorption. Planning and conduct of field experiments, Recording biometrical observations, Experimental designs, Compilation, Presentation and interaction of data. Correlation and response functions. Transformation.